600 **PROCESSES**
601 .Treatment by living organism
602 ..Including plant or animal of higher order
603 ..Including collecting or storing gas (e.g., fuel, carbon monoxide, etc.)
604 ...And reusing oxidant
605 ..Anaerobically, with subsequently aerobically treating liquid
606 ..Adding enzyme or releasing same by treating microorganism
607 ..Dividing, treating, and recombining liquid
608 ..Regulating floating constituent
609 ..Including dewatering sludge
610 ..Including adding ancillary growth medium for microorganism
611 ...For or with specific microorganism
612 ..And regulating temperature during biological step
613 ...Digesting sludge
614 ..Controlling process in response to stream constituent or reactant concentration
615 ..Utilizing contact surfaces supporting microorganism (e.g., trickling filter, etc.)
616 ...Particulate media
617 ....In bed form
618 .....And rehabilitating or regenerating same
619 ...Rotating contactor
620 ..Aerobic treatment
621 ...Recirculating to prior step
622 ....Of separated liquid
623 ....Of sludge or separated solid
624 .....And returning to or withdrawing from diverse treating zones
625 .....Treating outside mainstream
626 .....To mainstream oxygenation (e.g., activated sludge, etc.)
627 ......Utilizing specific oxidant, other than air alone (e.g., oxygen-enriched air, ozone, peroxide, etc.)
628 ......Utilizing mechanical aeration means
629 ...And internally circulating the liquid
630 ...And anaerobic treatment
631 ..And additional treating agent other than mere mechanical manipulation (e.g., chemical, sorption, etc.)
632 .Treating by enzyme
633 .Extracting utilizing solid solute
634 .Liquid/liquid solvent or colloidal extraction or diffusing or passing through septum selective as to material of a component of liquid; such diffusing or passing being effected by other than only an ion exchange or sorption process
635 ..Liquid/liquid or gel type (i.e., jellylike) chromatography
636 ..Including cleaning or sterilizing of apparatus
637 ..Including regulating pressure to control constituent gradient at membrane or to prevent rupture of membrane
638 ..Including ion exchange or other chemical reaction
639 ..Including prior use of additive (e.g., changing pH, etc.)
640 ..Passing through membrane in vapor phase
641 ..Utilizing plural diverse membranes
642 ..Extracting water from brine utilizing liquid/liquid solvent or colloidal extraction
643 ..Utilizing liquid membrane (e.g., emulsion) in liquid/liquid solvent or colloidal extraction
644 ..Diffusing or passing through septum selective as to material of a component in liquid/liquid solvent or colloidal extraction
645 ...Biological fluid (e.g., blood, urine, etc.)
646 ....Hemodialysis
647 .....Maintaining critical concentration(s)

707 ......Generating gas in situ
708 ..Including emulsion breaking
709 ..Controlling process in response to stream condition
710 ..Treating the insoluble substance
711 ...For recovery of a treating agent
712 ..Including recycling
713 ...Of separated solids
714 ..Seeding
715 ...Utilizing sludge or floc blanket
716 ..Including step of manufacturing inorganic treating agent
717 ...In situ
718 ..Including degassing
719 ..Including chemical reduction
720 ...Of chromium material
721 ..Including oxidation
722 ...Of iron or manganese material
723 ..Utilizing precipitant, flocculant, or coagulant, each with accelerator or with each other or plural precipitants, flocculants, or coagulants
724 ...Regulating pH
725 ....Utilizing organic precipitant
726 ...Sequential introduction
727 ....Including organic agent
728 ...Including organic agent
729 ..Utilizing organic precipitant
730 ...From natural source or chemical modification thereof
731 ....Starch
732 ...Synthetic polymer
733 ....Acrylic
734 .....Nitrogen containing (e.g., amine, azo, etc.)
735 ....Nitrogen containing (e.g., amine, azo, etc.)
736 .....Derived from alkyl halide or epihalophydrin reactant
737 ..Including temperature change
738 ..Including agitation
739 .Including controlling process in response to a sensed condition
740 ..Density or specific gravity sensing
741 ..Pressure sensing
742 ..Temperature sensing
743 ..pH sensing
744 ..Level sensing
745 ..Turbidity or optically sensing
746 ..Electrical property sensing
747 .Including geographic feature (e.g., drainage ditch, septic, pond)
748 .Utilizing electrical or wave energy (directly applied to liquid or material being treated)
749 .Chemical treatment
750 ..Including degassing
752 ..Plural spaced feedings
753 ..Utilizing halogen or halogen containing material
754 ...Chlorine or bromine containing
755 ....Organic
756 ....Hypochlorite
757 ..By chemical reduction
758 ..By oxidation
759 ...Utilizing peroxy compound (e.g., hydrogen peroxide, peracid, etc.)
760 ...Utilizing ozone
761 ...Liquid phase high temperature and pressure (e.g., "wet air", etc.)
762 ....Catalytic
763 ...Catalytic
764 ..Destroying microorganisms
765 ..Including liquid recirculation
766 ..Including temperature change
767 .Separating
768 ..Including treating separated solids
769 ...Destroying cake or solid component
770 ...Including drying (e.g., by squeezing or heating, etc.)
771 ....By gas contact
772 ...Washing with a fluid other than the prefilt
773 ..Including preliminary conversion to liquid state
774 ..Including temperature change
775 ...Thermal diffusion
776 ..Skimming
777 ..Including precoating filter medium with filter aid
778 ...With or by addition to prefilt
779 ..Discharging residue to prefilt
780 ..Including movement of filter during filtration
781 ...Centrifugally extracting
782 ....Blood
783 ...Rotating belt
784 ...Rotating drum

785 ...Cleaning filter utilizing wave energy (e.g., vibrating, pulsating, etc.)
786 ...Of particulate bed (e.g., fluidized or moving bed, etc.)
787 ..Cyclonic, or centrifugal (e.g., whirling or helical motion or by vortex, etc.)
788 ...Introducing liquid tangentially
789 ...Isolating layer
790 ..Dividing and recombining
791 ..Rehabilitating or regenerating filter medium
792 ...Particulate bed
793 ....Reverse flow
794 .....Including addition of diverse fluid
795 ......Expanded bed
796 ....Includng mechanical agitation
797 ...By diverse fluid
798 ....Reverse flow
799 ..Filtering immiscible liquids
800 ..Utilizing gravitational force
801 ...Including change of mainstream flow direction
802 ....Utilizing parallel separation passages
803 ...Including specified feature of settled solids removal
804 ...And additional diverse separation
805 ..And recirculating liquid
806 ..Plural separating
807 ..Utilizing particulate bed
808 ..Including specified pressure change

85 **WITH ALARM, INDICATOR, REGISTER, RECORDER, SIGNAL OR INSPECTION MEANS**
86 .Material level or thickness responsive
87 .Responsive to fluid flow
88 ..Meter-controlled cyclic systems
89 ...With time control
90 .Fluid pressure responsive
91 .Position or extent of motion
92 .Test valve
93 .In effluent conduit
94 .Transparent
95 ..Sight glass

96.1 **CONSTITUENT MIXTURE VARIATION RESPONSIVE**
96.2 .With membrane

97 **FLOW, FLUID PRESSURE OR MATERIAL LEVEL, RESPONSIVE**
98 .Fluid current controlled cyclic system
99 .Prefilt deverting to drain by prefilt accumulation
100 .Flow cut-off requiring reset
101 .Proportionate feed means
102 .Programming plural units
103 .Diverse sensing means
104 ..Responsive to material level
105 ..With control for auxiliary liquid inlet
106 .Filter cleaning
107 ..Rotary movement of filter or mechanical cleaner
108 ..Backwash or blowback
109 .Discharge of treated material
110 ..With separator inlet control
111 ..Responsive to prefilt accumulation or filter clogging
112 ..Heavier constituent
113 ...By weight of solids
114 ...By treated liquid accumulation
115 ...With lighter constituent outlet control
116 ..Permitted by filtrate accumulation
117 ..Check valve controlled
118 ...Non-closing, e.g., sand valve
119 ...Float type
120 .Vent control
121 .Float
122 ..Controls movable separator
123 ..Controls valve
124 ...Controls flow between two separators
125 ...Separator between float and valve
126 ...Float in separate rehabilitating fluid tank
127 ...Additional fluid inlet control
128 ...Float in receptacle other than that of separator
129 ....In flow between inlet and separator
130 .Fluid pressure responsive by-pass
131 ..By movement of separation medium
132 ..With additional separation or treating means
133 ..In inlet and outlet closure header

134 .Plural elements controlled
135 ..Including manually controlled element
136 .Check valve
137 .Maintaining stream pressure or flow
138 **WITH TIME CONTROL**
139 .Of additional fluid
140 ..Preparation for treating operation
141 **WITH PROGRAM ACTUATOR**
142 .Plural treating units or sections sequentially controlled
143 **AUTOMATIC CONTROL**
144 .Responsive to vibration or unbalance
145 .Responsive to rotation
146 ..Controlled cover latch
147 ..Controlled discharge means
148 .Container movement operated
149 .Thermal
150 **WITH GAS-LIQUID SURFACE CONTACT MEANS**
151 .With separator
153 **STRUCTURAL INSTALLATION**
154 .Flume stream type
155 ..Plural or diverse screens
156 ..Fluid stream or residue operated
157 ...Revolving cylindrical strainer
158 ..With cleaner for movable strainer
159 ..With cleaner and means to remove residue therefrom
160 ..Endless belt strainer
161 ..Revolving strainer
162 ..Fixed strainer
163 .Grated inlet surface drain
164 ..Flat grating at surface level
165 ...With subsurface weep means
166 ..Concentric guard ring or rib
167 .Closed circulating systems
168 ..Lubrication
169 ..Aquarium or swimming pool
170 .Geographic (e.g., drainage ditch, septic, pond)
171 .Machinery
172 .Ancillary to storage tank
173 **COMMINUTING**
174 .Cylindrical strainer
175 **WITH HEATER OR HEAT EXCHANGER**
176 .Thermal diffusion
177 .With treating fluid addition
178 ..With mechanical agitator or movable separator
179 .With mechanical agitator or movable separator
180 .Vapor or gas removal
181 .Flow line connected in series with distinct separator
182 .Diverse separators
183 ..Common casing coaxial with heater
184 .For filter
185 ..Imbedded or between filter media
186 ..External of casing
187 .Within gravitational separator
188 **WITH GAS SEPARATOR**
189 **PLURAL CHAMBERS WITH MOVEMENT OF GRANULES THEREBETWEEN**
190 **WITH EXTERNAL SUPPLY MEANS FOR REGENERATING MEDIUM, E.G., WATER SOFTENING SYSTEM**
191 .With pump, injector or siphon
192 **WITH PRELIMINARY CHEMICAL MANUFACTURE**
193 **WITH PRECOAT ADDING OR APPLYING MEANS**
194 **RECIRCULATION**
195.1 .Serially connected distinct treating or storage units
195.2 ..With semipermeable membrane, e.g., dialyzer, etc.
195.3 ..With sediment recycle means directly to main stream
195.4 ...Means is baffle slot
196 .Of filtrate
197 .From bottom of separator
198.1 **WITH MEANS TO ADD TREATING MATERIAL**
198.2 .Chromatography
198.3 ..Thin layer, e.g., plate, etc.
199 .Spaced along flow path
200 .Plural distinct separators
201 ..Serially connected
202 ...Diverse type
203 ..Filters
204 ...Sectional chamber press type
205 .With distinct reactor tank, trough or compartment
206 ..Chemical holder in series with separator
207 ..Within gravitational separator
208 ...With mechanical agitator
209 .Directly applied to separator

210 ..To interior of moving filter, e.g., drum
211 ...Through separator supporting rotary shaft
212 ...With stationary casing closure feature
213 ...With coaxial rotary impeller or distributor
214 ...With stationary mount for movable distributor
215 ...With effluent dividing means
216 ..Moving filter medium
217 ...Drum
218 ..Gas removed from closed tank
219 ..With mechanical agitator
220 ..Submerged fluid inlet
221.1 ...With outlet at surface, e.g., froth flotation, etc.
221.2 ....And gas injecting means other than by mechanical agitation
222 **MAGNETIC**
223 .With additional separator
224 **SECTIONAL CHAMBER PRESS TYPE**
225 .With residue removal or liquid agitation
226 .With porous filler
227 .Medium clamped in joint
228 ..With spacing frame
229 ..Imperforate base recess in plate
230 .With repair or assembling means
231 .Plates or frames
232 **WITH REPAIR OR ASSEMBLING MEANS**
233 .Piercing or closure knock out means
234 .Removable treatment part with normally disabled flow controller
235 .Placement of container opens flow controller
236 .Sliding or rolling on guide means
237 .Hoist or handle means
238 ..Hand manipulable
239 **CONVERTIBLE**
240 .Filter having selectively usable flow connector means
241 **WITH MOVABLE SUPPORT**
242.1 .Float
242.2 ..With aerating means
242.3 ..With oil water skimmer
242.4 ..With oil water sorption means
243 **ELECTRICAL INSULATING OR ELECTRICITY DISCHARGING**
244 **PORTABLE RECEPTACLE WITH HOOD OR CLOSURE**
245 .Attached variable flow controller
246 .Limited opening cover
247 **FILTRATE SPLASH PLATE AND/OR DEFLECTOR**
248 **WITH DRIP, OVERFLOW OR CONTENT DRAINING FEATURE**
249 **BRACKET OR LEG SUPPORT FOR STATIC SEPARATOR ASSEMBLY**
250 .Leg
251 **COMBINED**
252 **SERIALLY CONNECTED DISTINCT TREATING WITH OR WITHOUT STORAGE UNITS**
253 .Parallel
254 .With by-pass
255 .Cascade
256 .One unit inside another
257.1 .With storage unit
257.2 ..Having membrane
258 .With pump, gas pressure or vacuum source
259 .Diverse
260 ..Including multiple operation unit
261 ..One unit supports another
262 ..On different levels
263 **PARTICULATE MATERIAL TYPE SEPARATOR, E.G., ION EXCHANGE OR SAND BED**
264 .Selective units or compartments
265 .With gravitational separator
266 .With spaced non-particulate separating means
267 .Trunnion mounted casing
268 .Gravity flow of particles type
269 .With rehabilitation means
270 ..Movable means for particle pickup and redeposit
271 ..Surface traversing type
272 ...Rotating on stationary axis
273 ...Moving fluid distributor
274 ..Including means to apply gas to bed
275 ..Backwash or blowback means
276 ...With mechanical agitator or residue remover
277 ...Flow controller external of closed casing
278 ....Multi-way valve unit
279 ...With embedded fluid distributor

280 ..With agitator
281 ..With access opening to normally closed casing
282 .Removable cartridge or hand-manipulated container
283 .Pervious divider between and contacting beds
284 .Spaced beds
285 .Embedded baffle
286 ..Vertical
287 .Within flow line or flow line connected closed casing
288 ..Conduit through bed, inlet and outlet at same end of casing
289 ..With particular liquid receiving means or foraminous bed retainer
290 .With multi-layer beds
291 .Particular liquid receiving means or foraminous bed retainer
292 ..Hood or top protector type
293 ..Floor type, e.g., false bottom
294 **DIVERSE DISTINCT SEPARATORS**
295 .Including a filter
296 ..Including liquid as a separating medium
297 ..Moving filter medium
298 ..With mechanical residue or sediment mover
299 ..Including constituent trapping feature
300 ...Alternate filters and traps in series
301 ....Plural traps
302 ...Flow-line valve upstream of separator
303 ...Cut-off sediment trap
304 ...Tangential flow, spiral or convolute baffle
305 ...Baffle preceding or within sediment trap
306 ....Deflecting prefilt from filter medium
307 ...Downstream of filter medium
308 ...Directly communicating with tubular filter interior
309 ....Attached to filter element
310 ...Lateral trap
311 ...Downflow inlet, upflow through filter medium
312 ...Sediment discharge means
313 ....Valve controlled
314 ..Spaced filters
315 ...One within another
316 ...One adjacent inlet or outlet conduit
317 ...Including non-self-supporting medium
318 ...Incompatible shapes
319 .With agitator
320 .With baffle perpendicular to flow direction
321.6 **CASING DIVIDED BY MEMBRANE INTO SECTIONS HAVING INLET(S) AND/OR OUTLET(S)**
321.61 .Membrane secured with adhesive of specified composition
321.62 .Antithrombogenic membrane
321.63 .Rotating mechanical agitator adjacent membrane
321.64 .Plural diverse structured membranes within a single casing
321.65 .Permeated liquid quantity measurement or control
321.66 .Energy recovery from treated liquid
321.67 .Membrane movement during purification
321.68 ..Nontranslatory rotary
321.69 .With membrane cleaning or sterlizing means (other than by filter movement or rotating agitator)
321.7 ..Solid cleaning material (e.g., balls)
321.71 .Dialyzer with dialysate proportioning means
321.72 .Each section having inlet(s) and outlet(s)
321.73 ..Noncoiled nonannular cross section tube
321.74 ..Coiled membrane
321.75 ..Planar membrane
321.76 ...Spiral flow
321.77 ..Pleated membrane
321.78 ..Cylindrical membrane
321.79 ...Plural cylindrical membranes all connected for parallel flow
321.8 ....All cylindrical membranes are parallel
321.81 .....With embedded baffle
321.82 .Noncoiled nonannular cross section tube
321.83 .Coiled membrane
321.84 .Planar membrane
321.85 ..Spiral flow
321.86 .Pleated membrane

321.87 .Cylindrical membrane
321.88 ..Plural cylindrical membranes all connected for parallel flow
321.89 ...All cylindrical membranes are parallel
321.9 ....With embedded baffle
322 **PLURAL DISTINCT SEPARATORS**
323.1 .Filters
323.2 ..Tubular
324 ..Movable separating elements
325 ...Planetary
326 ...Drum type on parallel axis
327 ...Plural cleaners and plural movable elements
328 ...Pivotally mounted sections
329 ...Relatively movable
330 ...Connected for group operation
331 ....Spaced filter wall type, e.g., multiple hollow leaves
332 ..With residue removal or liquid agitation
333.01 ...Backwash or blowback
333.1 ....Sequential backwash
334 ...Alternating filter and residue remover
335 ..In series for prefilt flow
336 ...Tortuous path
337 ...Nested units
338 ....Concentric filter elements
339 ...Internal flange supporting filter element
340 ..Parallel filters with flow controller
341 ...Individually controlled for removal with common receiver
342 ..One element within another
343 ..Alternating oppositely opening liquid distributors
344 ..Abutted alternating medium and pan type receiver
345 ..Radial or radially connected to central header
346 ..Spaced wall-type filters
347 ...Central header
348 **FILTER**
349 .Pulsation dampener or gas trapping
350 .With movable means to compress medium
351 ..Actuating means external of closed casing
352 ..Internal spring
353 .Free cleaning means, e.g., loose abrading particles
354 .Medium, cleaner or agitator moved by fluid
355 ..Cleaner
356 ..Medium flexed
357 .Relatively movable members interleaved for cleaning
358 .Imperforate drum, medium on arc, chord or end
359 .Movable medium
360.1 ..Centrifugal extractor
360.2 ...With inward flow of feed component
361 ...With individual article container or support
362 ....Container or support reversible
363 ...With adjustable rotation stabilizer
364 ...Casing, shaft and filter unit gyratorily mounted
365 ...Shaft and filter unit gyratorily mounted
366 ....Gyratory mounting above filter
367 ...Filter gyratorily mounted on shaft
368 ...With rotation brake
369 ...Discharging residue
370 ....Secondary motion of filter medium
371 ....With variable flow controller
372 ....By residue engaging means
373 .....Fixed
374 .....Rotatable
375 ......Pivoted
376 .....Axially reciprocable
377 ...Internal work distributor
378 ...Including filtrate receiving means having plural filtrate outlets
379 ...Including filtrate receiving trough adjacent top discharge
380.1 ...Rotating element construction
380.2 ....Laundry
380.3 ....Horizontal axis
381 ....Inwardly extending partitions
382 ....Top filtrate discharge
383 ..Separate agitator
384 ..Vibrator and unidirectional motion filter medium
385 ..With plural motion
386 ..Rolls or confining members contacting residue

387 ..Unrollable
388 ..Vibrating or longitudinally reciprocating
389 ...Longitudinally moving prefilt type
390 ..Mounted on movable valve element
391 ..With cleaning means
392 ...Fixed position or attached valve blocking means
393 ...Backwash or blowback and additional cleaner
394 ...Discharging inside, e.g., internal-type drum
395 ...With filter-driven valve means
396 ...Solid cleaner, e.g., scraper
397 ....With plural outlets from filter casing
398 ..Within sealed enclosure
399 ...Movable casing
400 ..Belt type
401 ...Superimposed on additional moving support
402 ..Drum type
403 ...Internal feed
404 ...Annular segmented compartment
405 .Movable prefilt distributor
406 .Vacuumized filtrate receiver
407 .With residue removing means or agitation of liquid
408 ..Diverse, e.g., combined agitators, scrapers, aeration blowback
409 ..Fluid cleaning
410 ...Air pump type
411 ...Backwash or blowback
412 ....Liquid pulsator
413 ..Fixed filter medium and movable stirrer or cleaner
414 ...With plural outlets from filter casing
415 ...Nontranslatory rotary
416.1 .With pump, gas pressure, or suction source
416.2 ..For aquarium or swimming pool
416.3 ..For drinking water
416.4 ..For fuel system
416.5 ..For lubricating or oil treating system
417 .Alternating oppositely opening liquid distributors
418 .With flow controller for material being treated
419 ..Attached to or within portable prefilt receiver
420 ..Selective directive flow relative to filter
421 ...Pivoted prefilt deflector
422 ...Plural outlets from filter casing
423 ....Attached unitary plural passage header
424 ...Multi-way valve
425 ....Backwash
426 .....Encased
427 ...Backwash
428 ..Combining or dividing flow passages with filter in combined passage
429 ..Filter coaxial with valve seat or valve stem
430 ...Filter surrounds valve
431 ...Filter fixed to valve seat, opposed to valve head
432 ..Filter in valve body recess
433.1 .Divided filtered, and unfiltered liquid passages
434 ..Recombining
435 .Within flow line or flow line connected close casing
436 ..Vented
437 ..Central internal liquid receiver, e.g., tube
438 ...Imperforate central liquid tube
439 ....Axial flow through filter element
440 ...Inlet and outlet at same end
441 ...Attached to casing
442 ....Head and base connected
443 ..Inlet and outlet at same end
444 ...Filter suspended from head
445 ..Clamped in casing joint
446 ..Axially aligned inlet and outlet
447 ...Laterally removable
448 ...Single open-end-type filter element
449 ...Pipe end attached closed casing, e.g., faucet
450 ..Gasket within casing or spaced removable end members
451 ..Internal fixed shoulder supporting filter element
452 ...Single open-end-type filter element
453 ..Filter element clamped between closure and end wall
454 ..Filter element attached to closure

455 .Receptacle and modified spacing surface or support for filter medium
456 .Prefilt flow distributor or diverter
457 .With central pervious tubular receiver
458 ..Plural concentric receivers
459 .Pipe or plate attached type
460 ..Attached to open end of pipe
461 ...Spaced wall-type element
462 ...Pipe is connection to plate
463 ...Inserted holder
464 .Portable receptacle draining type
465 ..Cooperating handles on receptacle and drainer
466 ..Receptacle spout
467 ...Within receptacle proper
468 ...Spaced from spout discharge
469 ..On or adjacent receptacle upper edge
470 .Handled
471 ..Ring type
472 .Vented
473 .Resting on supporting receiver, e.g., portable
474 ..At upper edge of filtrate receiver
475 ...Filter offset in cover
476 ...Telescoped receivers or receiver sections
477 ..Resting on internal stop or surface
478 ...Unitary filter medium and radially expandable retainer
479 ...Inner separate retainer
480 ....With contractor for expandable retainer
481 ...Longitudinal retainer or guide, (e.g., reflex coffee maker)
482 ..At lower end or prefilt receiver
483 .Supported, shaped or superimposed formed mediums
484 ..Medium within foraminous supporting container or sheath
485 ..External cage-type support
486 ..Spaced wall type, e.g., hollow leaf
487 ...Concentric, convolute or pleated
488 ..Abutted or superimposed members
489 ...For series flow
490 ....Integral or coated layers
491 .....All fibrous
492 ...Alternating dissimilar
493.1 ..Pleated
493.2 ...Bonded end caps
493.3 ...Rectangularly shaped
493.4 ...Spirally formed
493.5 ...Filter element
494.1 ..Convolute
494.2 ...Metal
494.3 ...With edge spacer
495 ..Single ring or closed frame type
496 ..Bound, fused or matted, e.g., porous shapes, sponges, etc.
497.01 ..Cylindrical, conical, or trough shape
497.1 ...Helically wound
497.2 ...Filter blank
497.3 ...Conical
498 ..Perforated or grooved plates
499 ..Screens, e.g., woven
500.1 .Material
500.21 ..Semipermeable membrane
500.22 ...Isotropically pored
500.23 ...Hollow fiber or cylinder
500.24 ...Antithrombogenic coating or membrane
500.25 ...Metal containing
500.26 ...Glass
500.27 ...Organic
500.28 ....Cyclic
500.29 .....Cellulosic
500.3 ......Cellulose acetate
500.31 ....Cellulose diacetate
500.32 ....Cellulose triacetate
500.33 .....Homocyclic
500.34 ......Styrene
500.35 ....Acrylate
500.36 ....Alkene other than vinyl
500.37 ....Amine
500.38 .....Amide
500.39 ......Imide
500.4 ....Carbonate
500.41 ....Sulfone
500.42 ....Vinyl
500.43 .....Acrylonitrile
501 ..Sterilizing or neutralizing agent containing
502.1 ..Sorptive component containing
503 ..Diverse granular or fibrous
504 ...With adhered coating or impregnant
505 ...Including fibers

506 ..Coated or impregnated, e.g., adhesively bound
507 ...Fabrics
508 ...Fibrous
509 ....Inorganic
510.1 ..Porous unitary mass
511 **LIQUID AS SEPARATING MEDIUM**
512.1 **TANGENTIAL FLOW OR CENTRIFUGAL FLUID ACTION**
512.2 .Multiple cyclone
512.3 .With movable means affecting flow
513 **GRAVITATIONAL SEPARATOR**
514 .Portable invertible, e.g., milk and cream separator
515 ..Selective withdrawal of constituents
516 ..Resilient deformable isolator
517 ...Hinged to handle
518 ..Sectional isolator
519 .Material supply distributor
520 ..Rotatable
521 .Superposed compartments or baffles, e.g., parallel plate type
522 ..Each with lighter constituent discharge
523 .Mechanical constituent mover
524 ..Diverse serial
525 ..Scum sediment removal
526 ..Endless belt or chain
527 ..Rectilinearly movable supporting means
528 ..Horizontally rotating scraper
529 ...Polygonal container and correlating mover
530 ...Tank rim-supported carriage
531 ...Elevatable scrapers
532.1 .Heavier constituent trap, chamber, or recess
532.2 ..Septic tank
533 ..Closure or valve controlled discharge
534 ...In sloping recess
535 ....Downstream of separator
536 ...In side wall of separator
537 ...With discharge means for two or more lighter constituents
538 .Lighter constituent trap
539 ..Gas vent or bypass
540 ..With discharge port
541 **ADJUNCTS**
542 **MISCELLANEOUS**

CROSS-REFERENCE ART COLLECTIONS

900 **ULTRA PURE WATER (E.G., CONDUCTIVITY WATER)**
901 **SPECIFIED LAND FILL FEATURE (E.G., PREVENTION OF GROUND WATER FOULING)**
902 **MATERIALS REMOVED**
903 .Nitrogenous
904 ..-CN containing
905 ..Protein
906 .Phosphorus containing
907 ..Phosphate slimes
908 .Organic
909 ..Aromatic compound (e.g., PCB, phenol, etc.)
910 ..Nonbiodegradable surfacant
911 .Cumulative poison
912 ..Heavy metal
913 ...Chromium
914 ...Mercury
915 .Fluorine containing
916 .Odor (including control or abatement)
917 .Color
918 **MISCELLANEOUS SPECIFIC TECHNIQUES**
919 .Using combined systems by merging parallel diverse waste systems
920 .Using combined systems of sequential local and regional or municipal sewage systems
921 .Flow equalization or time controlled stages or cycles
922 .Oil spill cleanup (e.g., bacterial, etc.)
923 ..Using mechanical means (e.g., skimmers, pump, etc.)
924 ..Using physical agent (e.g., sponge, mop, etc.)
925 ..Using chemical agent
926 .Using oxidation ditch (e.g., carousel, etc.)
928 **PAPER MILL WASTE (E.G., WHITE WATER, BLACK LIQUOR, ETC.) TREATED**
929 **HEMOULTRAFILTRATE VOLUME MEASUREMENT OR CONTROL PROCESSES**
930 **PAINT DETACKIFYING**

FOREIGN ART COLLECTIONS

FOR **CLASS-RELATED FOREIGN DOCUMENTS**

DIGESTS

DIG 3 **BELT ALIGNMENT**
DIG 5 **COALESCER**
DIG 6 **DEHYDRATORS**
DIG 7 **DRIER BLOCKS**
DIG 8 **FAT FRYER**
DIG 9 **FLOATING COVER**
DIG 13 **PART FLOW-FULL FLOW**
DIG 17 **TWIST-ON**